
Product Data Sheet

Product Name: MS170
Cat. No.: GC65466

Chemical Properties

Cas. No. 2376136-61-5

Formula C₄₅H₅₆CIN₉O₇ M.Wt 870.44

Solubility Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

MS170 is a potent and selective PROTAC AKT degrader. MS170 depletes cellular total AKT (T-AKT) with the DC50 value of 32 nM. MS170 binds to AKT1, AKT2, and AKT3 with Kds of 1.3 nM, 77 nM, and 6.5 nM, respectively[1].

Cereblon (CRBN)-recruiting degrader MS170 is an effective AKT degrader without a "hook effect". MS170 selectively induces robust AKT protein degradation, inhibits downstream signaling, and suppresses cancer cell proliferation. MS170 concentration- and time-dependently induces AKT degradation through the ubiquitin-proteasome system (UPS)[1]. MS170 (10 nM-10 μM) effectively inhibits the proliferation in multiple cancer cell lines[1]. MS170 (1 nM-10 μM) concentration-dependently depletes cellular total AKT (T-AKT) with the DC50 value of 32±18 nM[1].

MS170 (a single intraperitoneal injection at a dose of 50 mg/kg) is bioavailable in mice via IP injection[1].

[1]. Yu X, et al. Design, Synthesis, and Evaluation of Potent, Selective, and Bioavailable AKT Kinase Degradation. J Med Chem. 2021;64(24):18054-18081.

Caution: Product has not been fully validated for medical applications. For research use only.

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